

DISTRIBUTED NAVIGATION SYSTEM

ABSTRACT OF THE DISCLOSURE

Computer-assisted navigation is achieved with component-oriented programming and instructions that provide a distributed component programming 5 navigation system. The computer-assisted navigation is achieved with a computing device having program memory that includes a component-oriented application that provides a distributed navigation system comprising a User Interface component, a Service Manager component, a User Positioning category of components that provides a user position based on navigation sensor data, and a Mapping category 10 of components that accesses a map database and places the user position on a road segment of the map database, wherein the components within the navigation module are managed by the service manager to perform distributed navigation services.

SD 615641 v5 (40154.6223)8